

PATENT SPECIFICATION (11)

1 589 510

(21) Application No. 47621/77

(22) Filed 16 Nov. 1977 (19)

(44) Complete Specification published 13 May 1981

(51) INT. CL.³ E04H 5/02

(52) Index at acceptance

EID 116 135 2151 412 426 731 F G52

(72) Inventor PETER WESTWOOD



(54) CONTAINER WORKSHOP

(71) We, WARDELL TRANSPORT LIMITED, British Company of Barley Castle Lane, Appleton, Warrington, WA4 4RD, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The invention relates to transportable units and particularly to an adaption of a load-carrying container type structure to use as a workshop.

Load-carrying containers have come into wide-spread use for efficient handling and transportation of goods, and their sizes have become standardised to further such ends. A typical standard size is about 20 feet x 8 feet x 8 feet and corresponds very well with the space requirements of a small workshop.

According to the invention there is provided a transportable container, preferably of the general size normally used for load carrying purposes but adapted for service as a workshop having provision on up to three of its walls for work bench mounting means, such as a rail, and an incorporated mounting for machinery, such as lathes, drills and saws, the mounting comprising a platform, such as a steel plate, at floor level and above channel type stiffening and preferably within the normal thickness of the container base.

The container according to the invention may also have one or more of insulation of its walls, electrical wiring for lighting and power, preferably full 3-phase power wiring, air conditioning and a wood clad floor.

If desired, such channel type stiffening may be sealed preferably filled say with sand, for vibration and noise reduction purposes other types of filler material, say foamed or scrap synthetic plastics material could be used and need not be of particulate form, especially if the channelling is not sealed.

One embodiment of the invention will now be described by way of example, with reference to the accompanying drawings, in which:—

Figure 1 is an isometric partly broken away view of a container workshop;

Figure 2 is a plan view of part of the container base incorporating a machine mounting bed;

Figure 3 is a section through the bed of Figure 2.

Figures 4 and 5 are similar plan and section views to those of Figures 2 and 3 but showing modifications.

In the drawings, a container 10 has a substantially standard exterior for a normal steel load carrying container with a base 12, side walls 14 of channelled form, top 16 also of channelled form, and end closures, not shown but at least one of which will normally be at least partially openable for access by men and materials. On its interior, the container 10 has a wood floor cladding 18 of the base 12, an insulated cladding 20 of the side walls and at least a fixed end wall say by a 25mm insulated lining with aluminium finished acrylic stucco, and insulated prefinished ceiling board 22 over its top.

Also indicated in the drawings are lighting wiring conduit 24 to fluorescent light tube housings 26 with at least one switch 28 therefor to which wiring conveniently runs behind the wall cladding 20, power wiring conduit 30 in the form of skirting trunking with spaced three-pin outlets 32, and at a convenient height a mounting rail 34 along both sides 14 and one end of the container for installation of fixed or adjustable work benches.

At any convenient position or positions in the floor of the container is a machine mounting bed in the form of a let-in $\frac{1}{4}$ " mild steel plate 35 supported upon 6 inch x 3 inch Z-shaped base reinforcement 36 making up a double channel section that will usually run the full width of the container and be fitted within the normal thickness of the base 12, which is indicated at 38 with channelling transversely thereto with the verticals of the reinforcements 36 welded to a slot in the channels 38 and the horizontal of those reinforcements fitted over and welded to cut back portions of the

channels 38 with inturned ends 42 accommodated in slotting of the channels, 38.

Suitable mounting plate holes 42 will be provided for any particular machine and there may be more than one machine bed as desired, and preferably by way of captive bolts 44 representing fastening studs.

Any convenient air conditioning system may be incorporated, if desired with ducting to particular positions within the container workshop.

Such a unit is capable of being delivered to site fully equipped and ready to operate upon simple connection thereto of electrical services. Its delivery or transport may be in conjunction with other goods in other containers and the usual corner posts and lifting blocks 46 are provided.

Figures 4 and 5 show the addition of lower mild steel plates 50 that seal the stiffening channelling and permit filling thereof with vibration and/or noise damping material 52 such as sand.

25 WHAT WE CLAIM IS:—

1. A transportable container, adapted for service as a workshop, having provision on up to three of its walls for work bench mounting means and an incorporated mounting for machinery comprising a platform at floor level and above channel type stiffening in the container's base.

2. A container as claimed in claim 1 also having insulation of its walls.

3. A container as claimed in claim 1 or 2 also having electrical wiring for lighting and power.

4. A container as claimed in claim 1, 2 or 3 also having air conditioning.

5. A container as claimed in any one of claims 1 to 4 also having a wood clad floor.

6. A container as claimed in any one of claims 1 to 5 wherein the channel type stiffening is wholly within the normal thickness of the base.

7. A container as claimed in any one of claims 1 to 6 wherein the channel stiffening is sealed.

8. A container as claimed in any one of claims 1 to 7 wherein the channel stiffening is at least partially filled with sound and/or vibration absorptive material.

9. A container as claimed in claim 8 with claim 7 wherein the absorptive material is particulate.

10. A container as claimed in claim 9 wherein the absorptive material is sand.

11. A container as claimed in anyone of claims 1 to 10 wherein the work bench mounting means is a rail.

12. A container as claimed in any one of claims 3 to 11 wherein the electrical wiring is full 3-phase power wiring.

13. A container as claimed in any one of claims 1 to 12 wherein the machinery mounting is for lathes, drills or saws.

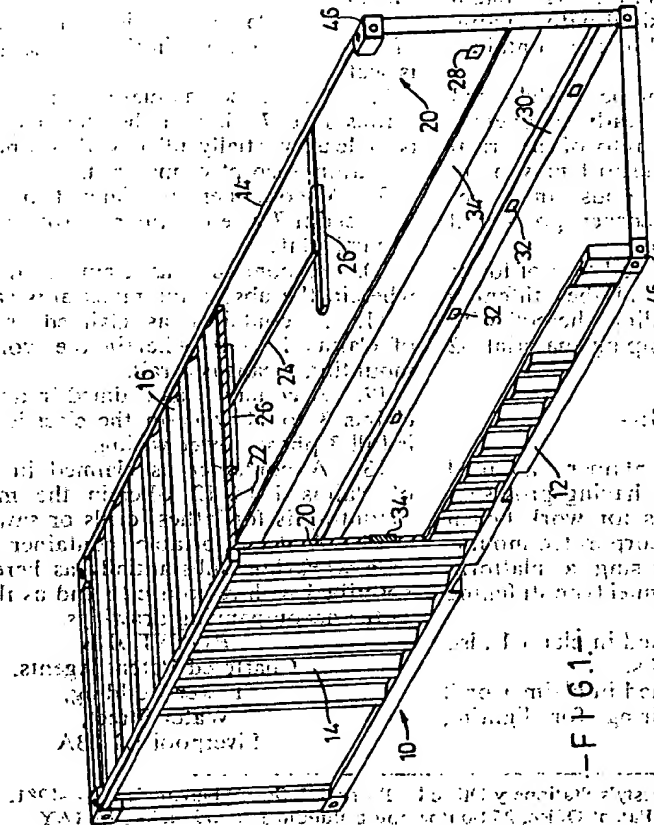
14. A transportable container adapted as a workshop substantially as hereinbefore described with reference to and as illustrated in the accompanying drawings.

ROYSTONS
Chartered Patent Agents,
Tower Building,
Water Street,
Liverpool L3 1BA.

1589510

COMPLETE SPECIFICATION

3 SHEETS This drawing is a reproduction of the Original on a reduced scale Sheet 1



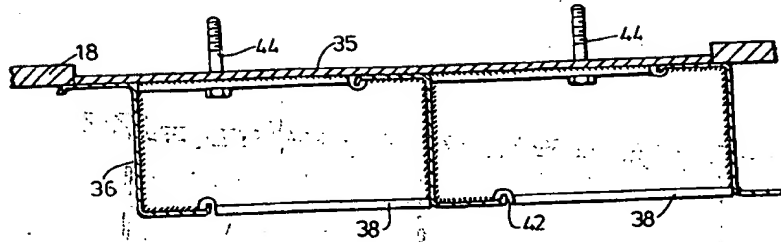
-F 61

1589510

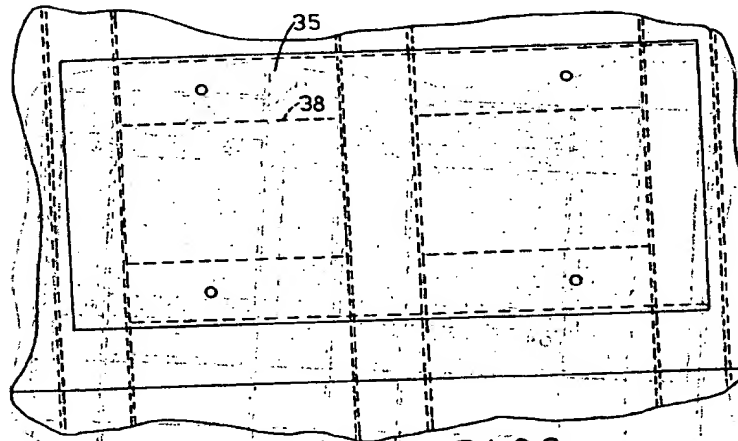
COMPLETE SPECIFICATION

3 SHEETS

This drawing is a reproduction of
the Original on a reduced scale
Sheet 2



-FIG. 3-



-FIG. 2-

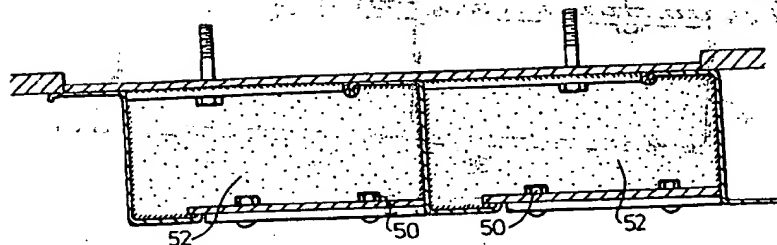
1589510 COMPLETE SPECIFICATION
3 SHEETS

1589510

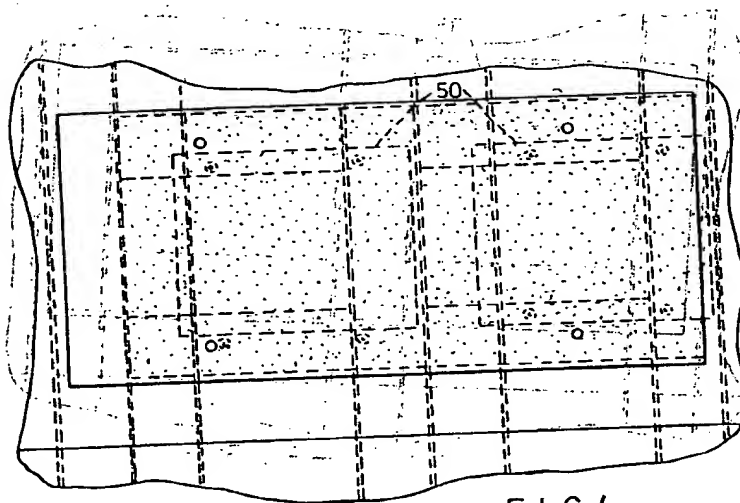
COMPLETE SPECIFICATION

3 SHEETS

This drawing is a reproduction of
the Original on a reduced scale
Sheet 3



--FIG. 5--



--FIG. 4--

100-111-11

100-111-11

100-111-11

100-111-11

100-111-11

100-111-11

100-111-11

100-111-11

THIS PAGE BLANK (USPTO)

100-111-11